



[LD 824] **AUGUST 2013** **Sub. Code: 4884**  
**POST BASIC BACHELOR OF SCIENCE IN NURSING DEGREE**  
**EXAMINATION**  
**First Year - Non Semester**  
**Paper III – BIOCHEMISTRY AND BIOPHYSICS**  
**Q.P. Code : 684884**

**Time : Three hours**  
**(180 Min)**

**Maximum : 100 marks**

**Answer Section A and B in a SEPARATE answer book.**

**SECTION A**  
**(BIOCHEMISTRY)**

**I. Essay** **(1x20=20)**

1. Write down the normal blood glucose level. Describe the hormonal regulation of Blood glucose level. Add a note on glycosuria.

**II. Write Notes on:** **(4x5=20)**

1. Essential amino acids
2. Kidney Function tests
3. Enzymes – clinical significance
4. Elevated blood uric acid level.

**III. Short Answer on:** **(5x2=10)**

1. Name the ketone bodies
2. Serum proteins and their normal values
3. Phospholipids
4. Name any four important abnormal constituents of urine
5. Phosphorylation

**SECTION B**  
**(BIOPHYSICS)**

**I. Essay:** **(1x20=20)**

1. Describe in detail various equipments used in intensive care unit.

**II. Write Notes on:** **(4x5=20)**

1. Application of light in nursing.
2. Noise Pollution
3. Blood pressure measurements.
4. Radio isotopes used in medicine.

**III. Short Answers on:** **(5x2=10)**

1. Second order of lever.
2. Normal ECG waveform.
3. Differentiate between scalar and vector quantities.
4. Biological effects of electric shock.
5. Myopia and Hypermetropia.

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